

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/775,270	02/10/2004	Young-Kwang Kim	SAM-0105DIV 1276		
7:	590 10/15/2004	EXAMINER			
Anthony P. Onello, Jr., Esq.			NHU, DAVID		
Mills & Onello LLP Suite 605			ART UNIT	PAPER NUMBER	
Eleven Beacon	- 11,5 - 1	2818			
Boston, MA	02108	DATE MAILED: 10/15/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)					
Office Action Summary		10/775,2	70	KIM ET AL.					
		Examine	r	Art Unit					
		David Nh		2818					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). 'Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status					. •				
1)⊠ Resp	1) Responsive to communication(s) filed on 10 February 2004.								
2a)☐ This a	action is FINAL.	2b)⊠ This action is r	non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4a) Oi 5)	Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-12 is/are rejected. Claim(s) is/are objected to.								
Application Pa	pers								
9) ☐ The specification is objected to by the Examiner.									
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
• •	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/645,285. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
·			Sw	, ala					
Attachment(s)									
2) Notice of Dra 3) Information	ferences Cited (PTO-892) aftsperson's Patent Drawing Review (F Disclosure Statement(s) (PTO-1449 or Mail Date <u>01</u> .		4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	ate	O-152)				

DETAILED ACTIONS

Claims Objection

1. Claim 7, "forming source/drain regions in the first conductivity well" should be -- forming source/drain regions in the first conductivity-type well--

"forming a second junction diode formed in the second conductivity well" should be -- forming a second junction diode formed in the second conductivity-type well--

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, "a second conductivity-type impurity" lacks a clear antecedent basis.

"a second conductivity-type junction diode in the substrate" lacks a clear antecedent basis.

Where are the first conductivity-type impurity and the first conductivity-type junction diode in claim 1?

"the surface of the inter-level insulating layer" lacks a clear antecedent basis.

Conclusion

5. A shortened statutory period for response to this action is set to expired 3 (three) months and 0 (zero) day from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see 710.02 (b)).

Application/Control Number: 10/775,270

Art Unit: 2818

Page 3

6. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to 5:00 PM. The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956

David Nhu

لمظ

October 14, 2004

Dui PDe